

## Dual Polarized Horn Antenna

### WR-42/18-26.5GHz/6dBi Min, Gain

Model:TL-42DPHA6K

TL-42DPHA6K is a dual polarized horn antenna that operates from 18 to 26.5GHz, The antenna offers 6dBi minimum gain. The antenna VSWR is 2:1 maximum. The antenna cross polarization isolation is minimum 30 dB. The antenna RF port is WR-42 waveguides. It can be widely used in EMI detection, orientation, reconnaissance, antenna gain and pattern measurement and other application fields.

#### Features:

- Operating Frequency 18 to 26.5GHz
- Gain: 6dBi Min
- Dual Linear Polarization

#### Applications:

- Radar Systems
- Communication Systems

### 电气特性 Electrical Characteristics:

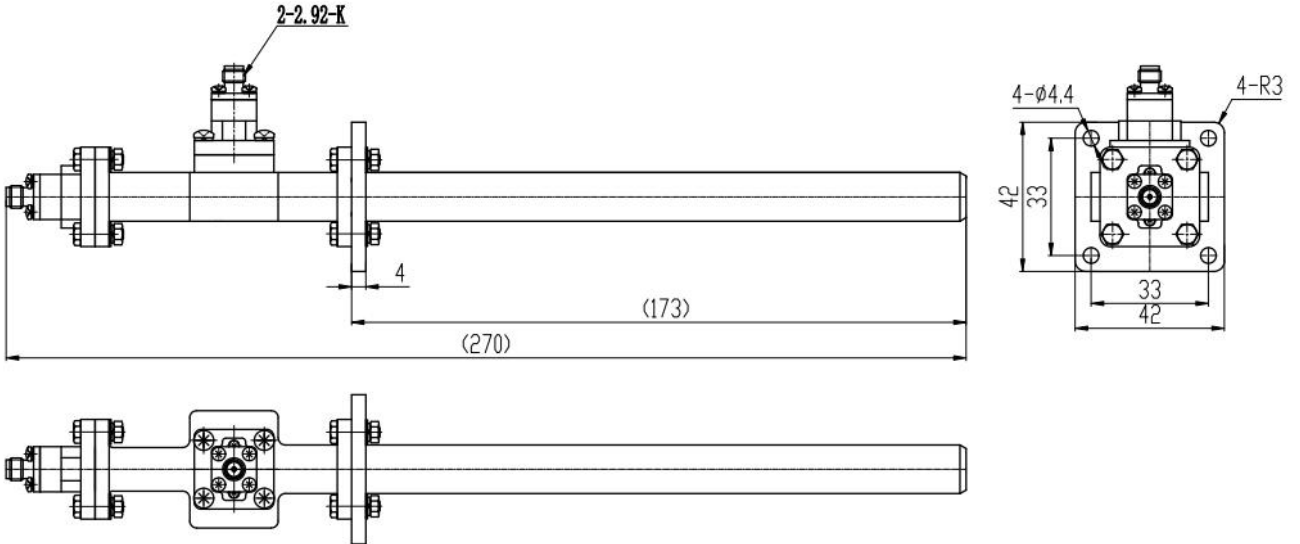
| 参数 Parameter                        | Min         | Typ | Max  | 单位 Units |
|-------------------------------------|-------------|-----|------|----------|
| 频率范围 Frequency Range                | 18          |     | 26.5 | GHz      |
| 增益 Gain                             | 6           |     |      | dBi      |
| 极化方式 Polarization mode              | Dual Linear |     |      |          |
| 驻波 Input VSWR                       |             |     | 2    | :1       |
| 1dB波束宽度 1dB Antenna Beamwidth       | 22          |     |      | °        |
| 交叉极化隔离 Cross Polarization Isolation | 30          |     |      | dB       |

### 机械特性 Physical Characteristics:

| 类型 Description            | 参数 Parameter  | 单位 Units |
|---------------------------|---|----------|
| 材质 Material               | Copper or Aluminum  |          |
| 表面处理 Finish               | Silver plated or conductive oxidation, Spray sea gray paint |          |
| 波导接口 Waveguide Connectors | WR-42   |          |
| 尺寸 Size                   | 270*42*42   | mm       |

外形图 Outline Drawing:

Unit:mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

| 标准型号 Base Number | 描述 Description  | 版本号 Revision |
|------------------|---|--------------|
| TL-42DPHA6K      | Dual Polarized Horn Antenna,<br>18-26.5GHz, Gain: 6dBi Min, WR-42 | Rev.1.0      |